

Title (en)

METHOD AND DEVICE FOR THE STABILIZATION OF THE GAIN OF A PHOTSENSITIVE AVALANCHE ELEMENT

Publication

EP 0106728 B1 19880107 (FR)

Application

EP 83401763 A 19830907

Priority

FR 8215479 A 19820914

Abstract (en)

[origin: US4599527A] Gain of a photosensitive avalanche member, such as an avalanche photodiode, is stabilized so that a variation in gain of the photosensitive member in terms of temperature is compensated for by applying to the photosensitive member a bias voltage varying with temperature according to a predetermined relationship. The relationship depends on the variation with temperature in the voltage applied to terminals of at least one diode. The gain stabilizing device comprises a temperature-stabilized voltage source, a dc-dc voltage converter having an adjustable gain for applying a bias voltage to the photosensitive member, and at least one diode series-connected between the supply source and an input of the converter.

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